

From: [JOHNSON Keith](#)
To: [Chip_Humphrey/R10/USEPA/US@EPA](#)
Subject: FW: CLD Pacific Grain notes
Date: 08/11/2009 11:07 AM

FYI

From: ANDERSON Peter
Sent: Tuesday, August 11, 2009 9:14 AM
To: JOHNSON Keith
Subject: CLD Pacific Grain notes

Keith:

Thanks for dropping by. Here are the meeting notes from the CLD Pacific Grain discussion (during the meeting yesterday, the PRG and the applicant decided to move ahead with option #3):

NWP-2001-31 CLD Pacific Grain, J. McMillan – Due Date August 20, 2009

08/10/09: CLD on TODAY – PLEASE REVIEW OPTIONS BELOW, SO WE ARE READY TO DISCUSS

***James recommends beneficial reuse of the dredge prism material for the cap.

8/4/2009: Applicant's agent (B. Perleberg) summarized the following options for the PRG:

1. Mechanically remove upper 16" of dredge materail to an elevation -41 feet CRD, stockpile dredge material in a separate barge "A", removed sediment to a depth of -44 feet CRD composed on z-sample (CLD-WR-01z and CLD-WR-02z) place into barge "B", place barge "A" dredge materail to cap ship berth between elevation (-44.0 and -43.3 feet CRD) to create a 9-inch sand/gravel cap identified in Figure 1. Take overdredge material from barge "B" to a type C or type D landfill. If there is not enough dredge materail to cover the ship berth with 9-inches of cap, acquire clean sand from an upland source (sand should be 90% coarse grain).
2. Determine the vertical, and longitudinal extent of contamination for a clean surface. This may require a one to three additional core samples radiating from CLD-WR-01c (minimum of 2 core samples). These 10 foot core samples would profile each 2-foot lift by running physical and chemical analysis consistent with the SEF 2009 unless rock or consolidated obstructions are encountered. Analytical laboratory data report would identify at what elevation a clean surface materail is present. Overdredge materail would be mechanically removed down to the new clean surface, placed into a barge, and off-loaded at a type C or type D landfill accepting contaminated material.
3. Use a mechanical bucket to overdredge 1 foot to -41 feet CRD, place a 9-inch rock cap. Overdredge and dredge materail would be mechanically removed, placed into a barge and off-loaded at a landfill accepting of type C or type D dredge material.

4. Long-term solution: Find the source of contamination then determine the extent of contamination by sampling further, deeper, and clean up the contaminated area. Chemistry bad in Z-layer. PCB, Hg, TBT exceedences. Lift material somewhat cleaner. Material too sandy for pore water analysis of TBT. See Pete Anderson's e-mail regarding ODEQ cleanup being consulted. The project is in the CERCLA site, should have some EPA input. ODEQ/Corps need to think about containment during dredging, too. Need further coordination before options are provided, but standard "overdredge and cap" or "re-sampling" options can be considered. Applicant indicates that very little fallback is expected. Old data exists that was not provided in SAP, Corps will try to get it, since old Z-layer data may be available.